

#17.

Hawaiian Explorations.

Dr. 4061 - 4070.

Hy. 4558 - 4597.

July 17<sup>th</sup> - 19<sup>th</sup>, 1902.

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

## SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	14.4	Hy	1558	
50		25	406	
100	"			
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

P.L. = 8.5

1007

No.

Hy. 4558.

Date

17 July, '02.

Lissac Machine. / Reel.

Turns 249 Cor. + 25

Depth 274 fms.

Shot or lead 36 Lbs.

Bottom For. S. R.

Bottom temperature

45.5

No. of thermometer

98238. Cor. + 0

Corrected temperature

45.5

Air

78.° -

Surface

77.° -

Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
8. 05.00	8.12.40	0		
06.05	10.50	100		
06.55	09.25	200		
8. 07.20	8.08.30	249		
		<del>300</del>		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Alia Point Light, S 41° 30' E., 23 1/2'

OK  
HOB  
7

249  
25  
274

4810

255

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *Hy. 4559.* Date *17 July '02.*  
*Sigsbee* Machine. / Reel. *Mary*  
 Turns *165* Cor. + *16* Depth *181 fms.*  
 Shot or lead *36 Lbs.*  
 Bottom *fine gy & vol S.*  
 Bottom temperature *50.2*  
 No. of thermometer *98238* Cor. + *0*  
 Corrected temperature *50.2*  
 Air *78°* - Surface *77°* - Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>8. 45.40</i>	<i>8. 50.40</i>	0		
<i>46.40</i>	<i>49.25</i>	100		
<i>8. 47.10</i>	<i>8. 48.30</i>	<i>165</i>		
		<del>200</del>		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Alia Point Light. S 47° E. 25 <sup>3</sup>/<sub>10</sub>'

OK  
HOB.  
/

165  
16

181

4810

255

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

St. by S. - P.L. = 14.5

No. *H. 4560*. Date *17 July '02*.

*Sigsbee* Machine. 1 Reel. *Navy*.

Turns *120* Cor. + *12* Depth *132 fms.*

Shot or lead *36 Lbs.*

Bottom *fine gy. & vol. S.*

Bottom temperature *61.0*

No. of thermometer *98238*, Cor. + *0*

Corrected temperature *61.0*

Air *79.0* Surface *77.0* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>9.20.05</i>	<i>9.24.15</i>	0		
<i>21.10</i>	<i>23.00</i>	100		
<i>9.21.25</i>	<i>9.22.40</i>	<i>120</i>		
		<del>200</del>		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Alia Point Light. S 51° 45' E. 27 <sup>6</sup>/<sub>10</sub>

OK  
HOB.  
1/2

120  
12  
132

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:



507  
*Drupil*  
 No. *H. 4561.* Date *17 July '02.*  
*Sigsbee* Machine. / Reel *Navy.*  
 Turns *84* Cor. + *8* Depth *92 fms.*  
 Shot or lead *36 Lbs.*  
 Bottom *fine gy S.*  
 Bottom temperature  
 No. of thermometer } *None* Cor. *+0*  
 Corrected temperature  
 Air *79°* - Surface *77°* - Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>9.43.25</i>		0		
		<i>84</i>		
		<del>100</del>		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Alia Point Light, ~~845~~

854°15'E,  
28 8/10

OK  
HOB

84  
8  
92

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

4562

Date

17 July '03

Sigsbee

Machine.

Reel

Navy

Turns 185 Cor. + 18

Depth

203 fms.

Shot or lead 36 Lbs.

Bottom fine vol S.

Bottom temperature

49.0

No. of thermometer

98238

Cor. + 0.

Corrected temperature

49.0

Air

78° -

Surface

76° -

Drift

Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

10.10.00

10.25.20

0

20.00

20.25

100

10.20.45

10.22.30

185

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Kauahala Light, N.E. Coast, Hawaii Is.  
 2180 30.71, 16.0

2500  
 2600  
 2700  
 2800  
 2900  
 3000  
 3100  
 3200  
 3300  
 3400  
 3500  
 3600  
 3700  
 3800  
 3900  
 4000

185  
 18

202

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

507. 18. July 77. - P. L. = 22.4

No. 44. 4512. Date 17 July '02  
 Machine. / Reel. 7100  
 Turns 470 Cor. + 47 Depth 517 fms.

Shot or lead 35 Lbs.

Bottom Foram. S.

Bottom temperature 40. -

No. of thermometer 98238. Cor. +0

Corrected temperature 40.0

Air 78° - Surface 76° - Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
10.59.00	11.10.05	0		
59.45	09.05	100		
11.00.30	08.10	200		
01.25	07.00	300		
02.25	06.05	400		
11.03.10	11.05.30	470		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Roughly Light, West, 15  $\frac{9}{10}$ '

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

470

47

517

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

N. by N. - P. L. = 25.2

No. 4564 Date 15 July 02.

Sigsbee Machine. / Reel. No.

Turns 452 Cor. + 45 Depth 498 fms.

Shot or lead 60 Lbs.

Bottom vol S. Firm.

Bottom temperature 40.0

No. of thermometer 98238 Cor. + 0

Corrected temperature 40.0

Air 78° - Surface 76° - Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
11.44.30	11.54.00	0		
45.15	52.55	100		
46.00	52.00	200		
46.45	50.55	300		
47.30	50.00	400		
48.00	49.20	453		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Kaukolo Light, 87° 24' W. 15 1/2'

OK  
H. H.

453  
45  
498

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:



Bar 57 35.2

No. *4000* Date *May 15, 1912*  
 Machine. #1 Reel. *1*  
 Turns *430* Cor. + *43* Depth *473*  
 Shot or lead *35 lbs.*  
 Bottom *Foram. val. S.*  
 Bottom temperature *40*  
 No. of thermometer *95238* Cor. *0*  
 Corrected temperature *40.0*  
 Air *76* Surface *76* Drift  
 Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

<i>30.30</i>	<i>31.40</i>	0
<i>29.55</i>	<i>31.55</i>	100
<i>29.15</i>	<i>32.00</i>	200
<i>28.40</i>	<i>32.05</i>	300
<i>28.05</i>	<i>32.10</i>	400
<i>27.30</i>	<i>32.15</i>	500
		600
		700
		800
		900
		1000
		1100
		1200
		1300
		1400
		1500
		1600
		1700
		1800
		1900
		2000
		2100
		2200
		2300
		2400

Kauai Island Light S 69° 41' N 15 3/4'

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
4812	3600	255
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Downed by Mr (Jesse)

P. 31.2

No. *4500* Date *July 18 02.*

Machine. #1

Reel. *Kay.*Turns *520* Cor. + *52* Depth *572*Shot or lead *35 lbs.*Bottom *gy M. Forams*Bottom temperature *39.1*No. of thermometer *98238* Cor. *0*Corrected temperature *39.1*Air *77* Surface *76* Drift

Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

<i>7- 15.50</i>	<i>25.50</i>	0		
<i>16.30</i>	<i>25.40</i>	100		
<i>17.15</i>	<i>24.40</i>	200		
<i>18.05</i>	<i>23.35</i>	300		
<i>19.00</i>	<i>22.25</i>	400		
<i>20.00</i>	<i>21.20</i>	500		
<i>21.20</i>	<i>21.05</i>	<i>520</i>		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Westerly Light, 859° N. 16 <sup>4</sup>/<sub>1</sub>

OK  
H.C.

4510

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Course N x 70 (true)

Cont Log 34.2

No. 4557 Date July 15

Machine #1 Reel. Hand

Turns 112 Cor. + 112 Depth 1307 fms

Shot or lead 35 lb

Bottom For. S.

Bottom temperature 35.3

No. of thermometer 75235 Cor. 0

Corrected temperature 35.3

Air 76 Surface 76 Drift

Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE.

## TURNS.

## DOWN.

## UP.

## DOWN.

## UP.

7.59.45 28.30 0

8.00.40 27.20 100

01.30 26.15 200

02.20 25.10 300

03.20 24.00 400

04.20 22.55 500

05.20 21.45 600

06.25 20.40 700

07.30 19.25 800

08.40 18.15 900

09.50 17.05 1000

10.55 15.55 1100

12.05 14.35 1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Keweenaw Light S 50° 45' W., 17<sup>5</sup>/<sub>10</sub>

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
4510	255	3600	
1145	148	3700	
3615	112	3800	
	1175	3900	
	1307	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

First wire given horizontal,  
used reel for guiding wire  
on reel.

Cable S & W. (spec)

Cast Log 372

No. *Hy 4568* Date *July 18<sup>th</sup>*Machine. # *1* Reel. *1*Turns *1165* Cor. + *109* Depth *1274 fms*Shot or lead *60 lbs.*Bottom *gy. M. From.*Bottom temperature *35.6°*No. of thermometer *75238* Cor. *0*Corrected temperature *35.6*Air *75* Surface *76* Drift

Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

3-24.55	28.00	0		
05.25	27.00	100		
06.20	26.20	200		
07.10	25.40	300		
08.05	24.40	400		
09.01	23.40	500		
09.40	22.50	600		
10.30	21.25	700		
11.50	21.20	800		
12.20	20.05	900		
13.15	18.45	1000		
14.10	17.25	1100		
15 =	16.20	1165		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Number of Sigsbee 8410 48' 71, 14'

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
4510	255	3500	
1165	146	3600	
3645	139	3700	
	1165	3800	
	1274	3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

On 7th & S. 20th



No. *1169* Date *15 July 1902*  
 Machine. *1* Reel. *1*  
 Turns *870* Coy. + *80* Depth *950 fms*  
 Shot or lead *60* ~~XX~~  
 Bottom *Foram. S.*  
 Bottom temperature *36.1*  
 No. of thermometer *98230* Cor. *0*  
 Corrected temperature *36.1*  
 Air *79* Surface *76* Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>4.05.50</i>	<i>4.28.10</i>	0		
<i>4.09.40</i>	<i>4.27.00</i>	100		
<i>4.13.30</i>	<i>4.25.50</i>	200		
<i>4.17.20</i>	<i>4.24.40</i>	300		
<i>4.21.10</i>	<i>4.23.30</i>	400		
<i>4.25.00</i>	<i>4.22.20</i>	500		
<i>4.28.50</i>	<i>4.21.10</i>	600		
<i>4.32.40</i>	<i>4.20.00</i>	700		
<i>4.36.30</i>	<i>4.18.50</i>	800		
<i>4.40.20</i>	<i>4.17.40</i>	900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Rau's Light, S 30° 45' N, 12'.

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
4810	3500	25.5
890	3600	17.0
5700	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

\* REMARKS:  
 All wire and running out.  
 All struts, 3<sup>rd</sup> cause, line  
 is with

No. 4570 964 Date 11 Oct 1907

Machine. Reel.

Turns 685 Cor. + 64 Depth 703 JMA

Shot or lead

Bottom Foran. S.

Bottom temperature 38.9

No. of thermometer 18235 Cor. 0

Corrected temperature 38.0

Air 77 Surface 76 Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

5.02.00	17.00	0
03.10	16.50	100
04.00	16.40	200
05.00	16.30	300
06.00	16.20	400
07.00	16.10	500
08.00	16.00	600
09.00	15.50	700
10.00	15.40	800
		900
		1000
		1100
		1200
		1300
		1400
		1500
		1600
		1700
		1800
		1900
		2000
		2100
		2200
		2300
		2400

Kanbala Light, S 14° 30' N, 10 <sup>5</sup>/<sub>10</sub>'

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
4810	3500	255
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

*Stacy*  
 No. *4571* Date *18 July '07*  
*4571* Machine. 1 Reel  
 Turns *316* Cor. *+ 38* Depth *348 fms*  
 Shot or lead *60 #*  
 Bottom *Foram. S.*  
 Bottom temperature *42.5*  
 No. of thermometer *98738* Cor. *0*  
 Corrected temperature *42.5*  
 Air *77* Surface *76* Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>5.05.00</i>	<i>17.46</i>	0		
<i>5.05.30</i>	<i>17.41</i>	100		
<i>5.06.00</i>	<i>10.40</i>	200		
<i>5.06.30</i>	<i>09.30</i>	300		
<i>5.07.00</i>	<i>07.25</i>	<i>316</i>		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Rachda. Light S 11° 15' E., 6 1/2 mi.

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

50. 75

No. 14592 Date 11/14/1900

Machine. 1 Reel.

Turns 167 Cor. + 17 Depth 184 fms

Shot or lead 36 lb

Bottom fine gy s. & red S. & green

Bottom temperature

No. of thermometer 98238 Cor. 0

Corrected temperature 53.5

Air 77 Surface 76 Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
6.41.50		0		
43.00		100		
43.10		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Kaukolo Light. 8 36° 15' E., 5 <sup>8</sup>/<sub>10</sub>

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:



No. 1573 *NY* Date 18 July 1901  
 Machine. 1 Reel. *1*  
 Turns 124 Cor. + 12 Depth 136 fms  
 Shot or lead 36 lb

Bottom *crs. oo. & yel. S. Foram.*  
 Bottom temperature 64.5  
 No. of thermometer 98238 Cor. 0  
 Corrected temperature 64.0  
 Air 77 Surface 76 Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
6:59.10	7:07.00	0		
7:00.00	7:06.50	100		
7:00.10	7:00.30	124		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Roughly Light, S E.,  $5\frac{8}{10}$

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

201 32.7

No. 1307 Date 10/11/12  
 Machine. 1 Reel. 1  
 Turns 97 Cor. + 10 Depth 107 fms  
 Shot or lead 35

Bottom crs co s. fir. 6

Bottom temperature

No. of thermometer 98238 Cor. 0

Corrected temperature 65.0

Air 77 Surface 76 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
7.16.10		0		
16.50	7.17.20	97		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Rainbow Light 855° E. 6.0'

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

*Stoney*  
 No. *4575* H y Date *18 July 1902*  
*Digbee* Machine. *1* Reel. *1*  
 Turns *75* Cor. + *7* Depth *82 fms*  
 Shot or lead *36 #*  
 Bottom *co S. Coralline, green*  
 Bottom temperature *70.0*  
 No. of thermometer *48738* Cor. *0*  
 Corrected temperature *70.4*  
 Air *77* Surface *78* Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>7:31.30</i>	<i>7:37.40</i>	0		
<i>57.10</i>		75		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Kauai Light, 864°35' E, 6-5

66  
100

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 4576 H4 Date 18 July 1907  
 Machine. Reel.  
 Turns 11 Cor. + 12 Depth 43 fms  
 Shot or lead 36 lb  
 Bottom Co. bk sh. & f.  
 Bottom temperature  
 No. of thermometer 2 None Cor.  
 Corrected temperature  
 Air 77 Surface 76 Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
7.47.00	7.48.00	0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Rounded Light, 8730 E. 6  $\frac{4}{10}$

10  
11  
12  
13  
14  
15

496

41

455

12

10

41  
5

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:





Latitude 18° 45' N. Longitude 107° 10' W.

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
473	3500	12
	3600	11
	3700	1
	3800	23
	3900	24
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Tangles -			
50	Much calcareous articulated			
100	green algae; much red coralline;			
200	Mollusks; about 7 sp. Crabs (few);			
300	2 hermits; 1 squid; few by and of			
400	sponges; foliaceous Bryozoa;			
500	1 anguillid; 1 eel; 1 hippocampus;			
600	1 pelagic; few worms; 3			
700	mollusks; little coral -			
800				
900				
1000				

# REMARKS:

Dr. Coorse (for S. C.), North.

No. *Dr. 4062* Date *11 July 02.*

(*Tanner*) Machine. — Reel.

Turns *80* Cor. + *3* Depth *83 fms.*

Shot or lead *26 Lbs.*

Bottom *co + vol S. S. L. Green.*

Bottom temperature

No. of thermometer } *None* Cor.

Corrected temperature } *None*

Air *78°* — Surface *74°* — Drift *16-10*

Trawl or dredge *8 Hemp Tangles*

SOUNDING WIRE.

DOWN.

UP.

*8.37.20*

TURNS.

DREDGE ROPE.

DOWN.

UP.

*8.42. — 9.21.30*

*46.10 17.20*

*44.00 14.25*

*54.30 9.42.25*

*9.02.00*

*100*

*175\**

*200*

*275*

*300*

*400*

*500*

*600*

*700*

*800*

*900*

*1000*

*1100*

*1200*

*1300*

*1400*

*1500*

*1600*

*1700*

*1800*

*1900*

*2000*

*2100*

*2200*

*2300*

*2400*

*2-2 min.*

*Also marked and*

*Dr. 4061.*

*\* On bottom*

Kauai Light 269° 15' E 6

CH.  
1100  
11.5

400  
80  
516

12  
2  
3  
52  
81  
120

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Tangles.			
50	Many of 2 sps. urchins.			
100	few cyprinodonts; 2 starfish.			
200	few of 3 sps. of sp.; few gonion-			
300	lars; many minute; soft sps.			
400	Crabs; 1 Alpheidae.			
500				
600				
700				
800				
900				
1000				

REMARKS:

Course for S.O., N.E.

No.

4577. Date 18 Feb. 02.

Tanner Machine. — Reel.

Turns 109 Cor. + 4 Depth 113 fms.

Shot or lead 26 lbs.

Bottom crs. co. S. Sh. Fran.

Bottom temperature

No. of thermometer 2000 Cor.

Corrected temperature

Air 78° — Surface 77° — Drift

Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

9.23.40 9.24. —

9.24.30 9.24.35

0

100

109

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Also marks on

No. 4062

Kaukoda Light, 856° 30' E., 6<sup>11</sup>/<sub>16</sub>'

OK  
1000  
in

496  
1'09  
38"

12  
24  
109  
113

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 4063 DL Date 18 July '02  
 Tanner Machine. - Reel.  
 Turns 48 Cor. + 2 Depth 50 fms.  
 Shot or lead 26 Lbs.  
 Bottom Co. vol S. For. R  
 Bottom temperature }  
 No. of thermometer } none Cor.  
 Corrected temperature }  
 Air 78° Surface 77° Drift { N 30° E  
 Trawl or dredge 5' 13' 10' { 5/10'

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
9.51. -		48	10.00.00	10.12.00
		100	03.30	13.00
		150	10.10.00	0.11.00
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Latitude 87° 30' E, 6 <sup>8</sup>/<sub>10</sub>'

611  
100  
300

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

496  
48  
448

12  
10  
2

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	5' 2' Blake - Many small boulders of cemented bivalve shells & foraminifera, the whole incrustated with polyzoa, corallines & sponges. Devil Crabs; few brachiopods; 2 small bivalves; little coral; 2 hydroids.			
50				
100				
200				
300				
400				
500				
600	✓✓			
700				
800				
900				
1000				

REMARKS:

1000 sandy bottom.



No. 4064 D<sup>r</sup>

Date 18 July '02.

Tanner Machine. - Reel.

Turns 61 Cor. + 2 Depth 63 fms.

Shot or lead 26 lbs.

Bottom Co. vol S. Foram.

Bottom temperature 69.0

No. of thermometer 98238 Cor. + 0

Corrected temperature 69.0

Air 78.0 Surface 77.0 Drift 1.0

Trawl or dredge 8 camp Dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

10.20.00

61 0

10.29. - 10.58.40

100

28. - 54.84

Alter marks and

150 200

10.30. - 10.59.10

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Dr. 14063.

x On bottom

5/12/20

SERIAL TEMPERATURES.				
DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Tangles.			
50	2 sp. <i>Urosalpinx</i> ; <i>Urosalpinx</i> sp.			
100	2 sp. <i>Urosalpinx</i> ; 1 each of 2 sp.			
200	<i>Urosalpinx</i> ; 2 sp. <i>Urosalpinx</i> ; <i>Urosalpinx</i>			
300	<i>Urosalpinx</i> ; <i>Urosalpinx</i> sp.			
400	little <i>Urosalpinx</i> ; <i>Urosalpinx</i> sp.			
500	1 <i>Urosalpinx</i> .			
600				
700				
800				
900				
1000				

REMARKS:

Conner (A.S.C.), N.N.W.

No. *Hy 4578*. Date *18 July '05*.*Sigsbee* Machine. / Reel. *W. H. Sigsbee*.Turns *97* Cor. + *10* Depth *107 fms*Shot or lead *36 Lbs.*Bottom *Co. R.*Bottom temperature *65. -*No. of thermometer *98238* Cor. + *0*Corrected temperature *65. -*Air *80° -* Surface *77° -* Drift

Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

*11.01. - 04.15**02. - 03. -*

0

~~100~~~~400~~

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

*Also marks and**Dr. 4064*

Kaukaha Light, S. 43° E, 7-10

C/K  
H/C

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. H. 4579.

Date 18 July 1900

Sigsbee Machine. #1 Reel. X-ray

Turns 352 Cor. + 35 Depth 387 fms

Shot or lead 35#

Bottom co. S. Sh. For.

Bottom temperature 41.8°

No. of thermometer 98238

Cor. 0

Corrected temperature 41.8°

Air 80 Surface 77 Drift

~~Trawl or dredge~~

## SOUNDING WIRE.

DOWN.

UP.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

1-154.30	01.50	0		
55.20	12-01.45	100		
56.10	59.45	200		
57.10	58.50	300		
57.40	58.20	352		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Kauai Light 850-30' S. line			
Alenuihana Channel, betw			
<i>10/1</i> <i>358</i>		2500	<i>Maui and</i> <i>Hawaii Ids -</i>
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Casting 67.7

No. *5* 4065 Date *15* July '02.

Machine. *1* Reel *1*

Turns *446* Cor. + *45* Depth *491* fms

Shot or lead *60*

Bottom *fine d. R.*

Bottom temperature *40.2°*

No. of thermometer *75535* Cor. *0*

Corrected temperature *40.2* (JAN)

Air *71* Surface *76* Drift *1.27*

Trawl or dredge *5 1/2' Beam*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

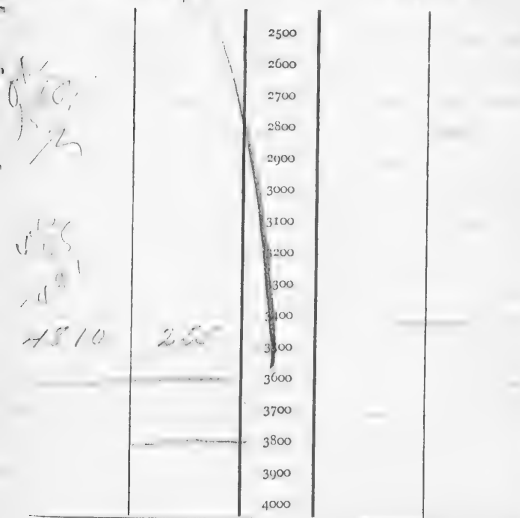
DREDGE ROPE.

DOWN.

UP.

<i>15-51-30</i>	<i>1-10-35</i>	0	<i>1-10-40</i>	<i>07-40</i>
<i>52-10</i>	<i>59-30</i>	100	<i>14-50</i>	<i>36.00</i>
<i>53-05</i>	<i>58-35</i>	200	<i>21-55</i>	<i>2-32-40</i>
<i>54-00</i>	<i>57-40</i>	300	<i>29-00</i>	<i>55.55</i>
<i>54-55</i>	<i>56-45</i>	400	<i>36-05</i>	<i>54.05</i>
<i>55-20</i>	<i>55-50</i>	<i>446</i> <del>500</del>	<i>43-10</i>	<i>51.55</i>
		600	<i>34.15</i>	<i>46.30</i>
		<i>688</i> <del>700</del>	<i>38.30</i>	<i>41.40</i>
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Under way light 8490 25 S, 167.



SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	5.5	Blake		
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Under way light 8490 25 S, 167.  
 100 fms. bottom reached  
 at 18 fms.  
 Net badly torn.



No. *4580*Date *15 July*Machine *Sigsbee*Reel *1*Turns *455* Cor. + *45*Depth *500 fms*Shot or lead *35 lbs.*Bottom *firm*Bottom temperature *35.1*No. of thermometer *75238*Cor. *0*Corrected temperature *38.8*Air *78*Surface *77*

Drift

Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

*2.12.45**23.40*

0

*13.40**22.35*

100

*14.35**21.35*

200

*15.40**20.30*

300

*16.45**19.20*

400

*17.00**18.30*

500

*Marker**end of*

600

*4065*

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Kauahala Light, S. 10 S. 10-70

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
4810	255	3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Sp. data checked but wrong  
to specimen cup, brought  
back

Oct 29 73.1

No. 4551 Date 18<sup>th</sup> July 02.  
 Sigbee Machine #1 Reel. Navy  
 Turns 840 Cor. + 13 Depth 853 fms  
 Shot or lead 55 lbs  
 Bottom gy. S. firm  
 Bottom temperature 36.40  
 No. of thermometer 75238 Cor. 9  
 Corrected temperature 36.4  
 Air 80 Surface 77 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
3.15.22	33.45	0		
12.55	31.40	100		
14.55	30.40	200		
15.55	29.40	300		
17.00	28.40	400		
18.10	27.35	500		
19.20	26.30	600		
20.25	25.25	700		
21.40	24.15	800		
22.20	23.35	900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Ka Lae - o Ka Ilio Point, Maui Is.  
 2149° 30' N. 7 <sup>3</sup>/<sub>10</sub>

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
4510	555	3500	
540	172	3600	
3970	83	3700	
	540	3800	
	923	3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *4066* Date *11/11/1907*

Machine. *1* Reel. *1*

Turns *160* Cor. + *16* Depth *176 fms.*

~~Shot or lead~~ *26 lb*

Bottom *bk y*

Bottom temperature *57.2°*

No. of thermometer *1837* Cor. *0*

Corrected temperature *52.5*

Air *80* Surface *76* Drift *0*

Trawl or dredge *8' beam trawl*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

<i>4:15.30</i>	<i>16.18.50</i>	<i>0</i>	<i>4:26.00</i>	<i>5:01.00</i>
<i>16.00</i>	<i>17.00</i>	<i>100</i>	<i>30.00</i>	<i>46.30</i>
<i>4:16.30</i>	<i>4:17.00</i>	<i>160</i>	<i>1.00</i>	
		<i>12</i>		
		<i>300</i>		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2500	
2600	
2700	
2800	
2900	
3000	
3100	
3200	
3300	
3400	
3500	
3600	
3700	
3800	
3900	
4000	

### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Tangle -			
50	3 sps. anemones; 2 sps.			
100	starfish; 5 sps. ophiurians; about			
200	6 sps. crabs; with small sponges;			
300	sea urchins in sand; ditto mollusks			
400	fragments of corals; rocks - not			
500	lava - encrusted with coral,			
600	coralline, & polyps.			
700	3 sps. fishes -			
800				
900				
1000				

REMARKS:

No.

Date

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor. 70.1

Corrected temperature

Air

Surface

Drift

Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Sta. 100-0 Sta. 110-0

8770217111

0.75

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:



No. 593

Date 18 July 1907

Machine. 1

Reel.

Turns 467 Cor. + 46

Depth 513

Shot or lead 35 lb

Bottom Volc & forl Sand 29 8 0

Bottom temperature

No. of thermometer 98235

Cor. 0

Corrected temperature 39.8

Air 79 Surface 76

Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

5.10 6.05.15  
5.10 6.05.15  
5.10 6.05.15  
1 49.40 04.00  
5.10 6.05.15  
01.30 6.07.00

0  
100  
200  
300  
400  
467  
600  
700  
800  
900  
1000  
1100  
1200  
1300  
1400  
1500  
1600  
1700  
1800  
1900  
2000  
2100  
2200  
2300  
2400

Kauiki Head, Maui, Nov. 7, 1905.  
 West End Coast of Maui.

OK  
 1100  
 2

2500  
 2600  
 2700  
 2800  
 2900  
 3000  
 3100  
 3200  
 3300  
 3400  
 3500  
 3600  
 3700  
 3800  
 3900  
 4000

4810 2.55

16.7  
 50

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 4584 Date 15 July 1902

Machine 1 Reel 1

Turns 497 Cor. + 50 Depth 547

Shot or lead 60

Bottom

Bottom temperature

No. of thermometer 98238 Cor.

Corrected temperature

Air 78 Surface 76 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
00.10.07		0		
02.00		100		
03.40		200		
05.20		300		
07.00		400		
08.30		497		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*Handwritten notes at the top of the page, possibly indicating a date or location.*

*Handwritten calculations:*  

$$\begin{array}{r} 0.16 \\ 57.00 \\ \hline 57.16 \end{array}$$
  

$$\begin{array}{r} 49.7 \\ 5.0 \\ \hline 54.7 \end{array}$$

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

*Handwritten circled notes in the temperature table:*  
 140  
 5.9

*Handwritten notes in the COR. column:*  
 2 fms kniley wire  
 and worked in 1  
 fms on stray line.

REMARKS:

*Handwritten remarks at the bottom of the page, including the word "turns" and other illegible notes.*

A.S. 21.7

No. *H/ 4-85* Date *18 Feb 62*  
*Sigsbee* Machine. / Reel. *Wm.*  
 Turns *632* Cor. + *17* Depth *689 fms.*  
 Shot or lead *35 Lbs.*  
 Bottom *vol. S. For.*  
 Bottom temperature *38.5*  
 No. of thermometer *98236* Cor. *0*  
 Corrected temperature *38.5*  
 Air *77°* - Surface *76°* - Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>8.12.30</i>	<i>8.26.20</i>	0		
<i>12.20</i>	<i>25.20</i>	100		
<i>14.20</i>	<i>24.30</i>	200		
<i>15.15</i>	<i>23.20</i>	300		
<i>16.10</i>	<i>22.15</i>	400		
<i>17.00</i>	<i>21.20</i>	500		
<i>18.05</i>	<i>20.20</i>	600		
<i>8.18.20</i>	<i>8.20.00</i>	<i>632</i>		
		<del>700</del>		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

N. L. M. P. L. 76.7

No. 47. 75.06. Date 18 July 02.

Machine. Reel.

Turns 785 Cor. + 69 Depth 854 fms.

Shot or lead 35 Lbs.

Bottom vol. S. br. M. Fr.

Bottom temperature 37.2

No. of thermometer 98226 Cor. 0

Corrected temperature 37.2

Air 76.° - Surface 76.° - Drift

Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

9. 13.45	9. 38.10	0		
14.25	29.10	100		
15.15	28.15	200		
16.05	27.15	300		
16.55	26.15	400		
17.45	25.15	500		
18.35	24.15	600		
19.25	23.25	700		
9. 20.10	9. 22.30	785		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Kaniki Head, 150071

6/10

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

5210

785

3525

205

125

769

11

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:



N. 6, N. - P.L. = 1.7

No. 4587 Date 18 July 1912

Machine. Reel.

Turns 1630 Cor. + 130 Depth 1760 fms.

Shot or lead 60 Lbs.

Bottom crs. vol. s. br. M. S.

Bottom temperature 37.4

No. of thermometer 7231 Cor.

Corrected temperature 37.4

Air 76. - Surface 76. - Drift

Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
10.17 -	10.56.40	0		
17.45	55.40	100		
18.35	54.35	200		
19.15	53.30	300		
20. -	52.15	400		
20.40	51.15	500		
21.35	50.05	600		
22.30	48.55	700		
23.30	47.30	800		
24.25	46.15	900		
25.25	44.50	1000		
26.20	43.25	1100		
27.10	42.00	1200		
28.20	40.20	1300		
29.25	38.30	1400		
30.30	36.35	1500		
31.40	34.20	1600		
10.32.10	10.33.25	1630		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

1000 fathoms, 25 29 19 12

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
2310	205	3500	
1630	75	3600	
2690	130	3700	
	1630	3800	
	1760	3900	
		4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

# REMARKS:

Shot did not detach, and was recovered.

May 2. - P. L. 56.2

No. 4588 Date 18 July '02

Sigsbee Machine. / Reel. 1

Turns 1122 Cor. + 96 Depth 1218 fms.

Shot or lead 60 lbs.

Bottom br. M. For. vol. S.

Bottom temperature 36. -

No. of thermometer 98236 Cor. 0

Corrected temperature 36.

Air 76. - Surface 76. - Drift

Trawl or dredge 19 fms.

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

11.48.30	12.10.30	0
49.15	09.30	100
49.55	08.30	200
50.35	07.30	300
51.25	06.35	400
52.10	05.35	500
53. -	04.40	600
53.55	03.40	700
54.45	02.40	800
55.40	01.40	900
56.35	12.00.35	1000
57.30	59.30	1100
11.57.50	11. -	1122
		<del>1200</del>
		1300
		1400
		1500
		1600
		1700
		1800
		1900
		2000
		2100
		2200
		2300
		2400

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

4/3/10 205  
1122 109  
3188 1126  
1218

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Cast No. 11.7

No. 4559

Date

July 14<sup>th</sup>

Machine #1 Reel. Heavy

Turns 42 Cor. + 42 Depth 42 fms

Shot or lead 60 lbs.

Bottom fine for. silt

Bottom temperature

No. of thermometer

98236

Cor.

Corrected temperature

64.8

Air

75

Surface

76

Drift

Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

1.36.30

16.45

0

37.15

15.00

100

38.30

14.25

200

39.50

13.40

300

41.10

12.40

400

42.30

12.05

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Kauai deep, 028°E, 1570

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
4310	205	3700	
163		3800	
3860	42	3900	
	450	4000	
	472		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Down 71 x 2. (1.5)

167

No. 4510 Date

Machine: Reel.

Turns 700 Cor. +

Depth 700 fms

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor. 0

Corrected temperature

Air

Surface

Drift

Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

2.07.25	27.00	0
10.25	28.00	100
11.25	27.00	200
12.15	26.00	300
13.10	25.00	400
14.10	24.00	500
15.10	23.00	600
16.10	22.00	700
17.10	21.00	800
18.30	20.30	900
	19.25	1000
		1100
		1200
		1300
		1400
		1500
		1600
		1700
		1800
		1900
		2000
		2100
		2200
		2300
		2400

Kauai Sound, 824° E. 1970

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
4310	205	3600	
900	127	3700	
3210	78	3800	
	900	3900	
	978	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Current, N. (1970)



July 17

No. 4591 Date July 17

Machine #1 Reel.

Turns 338 Cor. + 33 Depth 371 fms

Shot or lead 35 lbs.

Bottom fine gy. S. M.

Bottom temperature Thermometer did not trip

No. of thermometer 98236 Cor.

Corrected temperature

Air 74 Surface 76 Drift

Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

3-18.15	25.40	0		
19.00	24.35	100		
19.45	23.30	200		
20.30	22.25	300		
21.20	22.05	338 400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Previous Count. 8320 N. 8 10'

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
1310	205	3500	
335	33	3600	
3772	385	3700	
	371	3800	
		3900	
		4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Under No. 1000

No. 1592 H.V. Date 19 July 07  
 Machine. Recl.  
 Turns 239 Cor. + 24 Depth 263 fms.  
 Shot or lead 36  
 Bottom fm gy s.  
 Bottom temperature 46.0  
 No. of thermometer 48236 Cor. -0.2  
 Corrected temperature 45.8  
 Air 74 Surface 76 Drift  
 Trawl or dredge

# SOUNDING WIRE.

DOWN.

UP.

TURNS.

# DREDGE ROPE.

DOWN.

UP.

4:14.11 - 4:21.10  
 15.20 29.10  
 16.15 30.10  
 16.50 31.10  
 17.20 32.10

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Barometer 813.25 75/10

OK  
100  
112

239  
24  
263

4340 707  
739 182  
1120 23  
734  
262

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 40

Date 19 July 1907

Machine. 1

Reel.

Turns 792

Cor. + 22

Depth 814

Shot or lead 35 lb

Bottom gy. M. (F)

Bottom temperature 72.2

No. of thermometer 98256

Cor. -0.2

Corrected temperature 43.0

Air 76

Surface 76

Drift

Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

0111111111 2135 1111

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
4310	205	3500	
292	176	3600	
0018	179	3700	
	231	3800	
	52	3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

Date

Machine.

Reel.

Turns

Cor. +

Depth

~~Shot or lead~~

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Pacific Point, 8-10-5, 1911

C. C. C.

4210  
290  
4000

2015  
178  
291

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:



39.7

No. *411* Date *19 July 02*

Machine. *Reel.*

Turns *70* Cor. + *70* Depth *140*

Shot or lead *36 #*

Bottom *gy. S.*

Bottom temperature *48.0*

No. of thermometer *78236* Cor. *-0.2*

Corrected temperature *47.8*

Air *76* Surface *75* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>6:47.20</i>	<i>6:32.00</i>	0		
<i>47.20</i>	<i>31.00</i>	100		
<i>47.30</i>	<i>56.00</i>	200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Pt. 8713.8, 73.1  
 15

	2500
	2600
	2700
	2800
	2900
	3000
	3100
	3200
	3300
41.0	3400
50.0	3500
41.0	3600
20.0	3700
20.0	3800
20.0	3900
	4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 4531

Date 19 July 67

Machine.

Reel.

Turns

Cor. +

Depth 82 fms

Shot or lead 36 lb

Bottom cor. co. S. Br.

Bottom temperature 54.4

No. of thermometer 8735

Cor.

Corrected temperature

Air 76

Surface 75

Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

27.50  
28.30

41.20  
40.30

0  
100  
200  
300  
400  
500  
600  
700  
800  
900  
1000  
1100  
1200  
1300  
1400  
1500  
1600  
1700  
1800  
1900  
2000  
2100  
2200  
2300  
2400

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. Δ-4067 Date 10 Aug 02Tanner Machine. — Reel. (1)Turns 10 Cor. + 0 Depth 10Shot or lead 26 Lbs.Bottom fine co y vol S.Bottom temperature 78.5 \*No. of thermometer 98236 Cor.

Corrected temperature

Air 78 Surface 78 Drift (N) 18° WTrawl or dredge 8' Tanner y Alcon

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

0

9.22.30 9.48.40

100

9.23. = 9.47.40

200

300

2 1/2 min.

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

8477° E, 9 <sup>2</sup>/<sub>10</sub>

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	81	7		
50				
100	3	flatophagus		
200				
300				
400				
500				
600				
700				
800				
900				
1000				

## REMARKS:

\* Harmonic did not dip. - Tel note properly landed.

Trawl or dredge 8' Tanning and Bleaching

Permanence No. 718208, 9 <sup>3</sup>/<sub>10</sub>'

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
1200	12	3600	
	11	3700	
	1	3800	
	13	3900	
	11	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	8'	Danner		
50		1 Synodus; 1 photo-pharynx		
100		many mollusks		
200		2		
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:



No. *Dr. 4069* Date *12 July '02*  
*Tanner* Machine. Reel. *1*  
 Turns *17* Cor. + *1* Depth *18*  
 Shot or lead *26 lbs.*  
 Bottom *fine gy. S.*  
 Bottom temperature *22.2* *Did not trip.*  
 No. of thermometer *98226* Cor.  
 Corrected temperature *21.7° W.*  
 Air *80°* Surface *77°* Drift *8/10*  
 Trawl or dredge *8' Tanner*

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

*10.19.30**0**10.22.10**10.45.05**25**10.24.-**10.44.-**100**200**20**min.**300**400**500**600**700**800**900**1000**1100**1200**1300**1400**1500**1600**1700**1800**1900**2000**2100**2200**2300**2400*

Punahoa East, ~~92~~ 97/10

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

496  
12  
1509

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	8' Tanner 1 plate glass; many medusa.			
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *Hy. 4597*. Date *19 July '02*.

Tanner Machine. Reel.

Turns *22* Cor. + *1* Depth *23 fms.*Shot or lead *26 Lbs.*Bottom *fine gy. S.*Bottom temperature *76.3°*No. of thermometer *98236*. Cor. *-0.1*Corrected temperature *76.2*Air *80°* - Surface *77°* - Drift~~Trawl or dredge~~*Am.* SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

*10.46.46*

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

*also marks end  
of  
No. 4069.*

Puniana Pt. S 86° E., 10.0'

OK  
HOD.  
3

496  
22  
474

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

7111  
Hutchinson

P.L. 53.5

No. *Dr. 4070* Date *19 July '02.*  
*Sigsbee* Machine. #1 Reel. *Navy.*  
 Turns *41* Cor. + *4* Depth *45 fms.*  
~~Shot or lead~~ *36* ~~Lbs.~~  
 Bottom *fine gy S.*  
 Bottom temperature *71. -*  
 No. of thermometer *98236.* Cor. *-0.2*  
 Corrected temperature *70.8* (*N 39° W*)  
 Air *79° -* Surface *76° -* Drift *5/10'*  
 Trawl ~~or dredge~~ *8' Tanner and apron.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>11.22.45</i>		<i>41°</i>	<i>11.31.40</i>	<i>57.40</i>
		<i>100 62</i>	<i>34. -</i>	
		<i>200 W</i>	<i>36. 32</i>	<i>54.35</i>
		<i>300</i>		
		<i>400</i>		
		<i>500</i>	<i>20 min.</i>	
		<i>600</i>		
		<i>700</i>		
		<i>800</i>		
		<i>900</i>		
		<i>1000</i>		
		<i>1100</i>		
		<i>1200</i>		
		<i>1300</i>		
		<i>1400</i>		
		<i>1500</i>		
		<i>1600</i>		
		<i>1700</i>		
		<i>1800</i>		
		<i>1900</i>		
		<i>2000</i>		
		<i>2100</i>		
		<i>2200</i>		
		<i>2300</i>		
		<i>2400</i>		

Puniawa Pt,  $881^{\circ}30' E.$ ,  $6\frac{4}{10}'$

~~on  
8.10  
8.11~~

41  
4  

---

45

496 - 12

4310 - 205

---

8' Tanner -

2 sp. gobies; many of 2 sp.  
platophrys; 3 antigonias; 2 sp.  
shrimps; many of 2 sp. ophiura  
in sponge cavities; 1 fissurella;  
1 worm; 2 sp. sponge -

~